

**REMARKS**

The Office Action of June 9, 1999 presents the Examination of claims 1-42. Claims 1-4, 6, 7, 9-18, 30-36, 40 and 41 are indicated as allowed. Claims 19-29, 37-39 and 42, indicated as withdrawn from consideration consistent with restriction of the claims in the Office Action of July 1, 1998, are canceled without prejudice to or disclaimer of the subject matter thereof. Applicants reserve the right to file applications directed to the subject matter of the canceled claims pursuant to 35 U.S.C. § 120.

***Revised Substitute Sequence Listing and Statement Under***

***37 C.F.R. § 1.825 (d)***

The Examiner has provided a detailed statement of deficiencies of the CRF filed with Applicants' previous response. Enclosed herewith in full compliance to 37 C.F.R. §§1.821-1.825 is a revised Substitute Sequence Listing to be inserted into the specification as indicated above. The revised Substitute Sequence Listing in no way introduces new matter into the specification. Additional SEQ ID NOS:85-86 may be found on page 7 of the specification. Revised SEQ ID NO:9 may be found on page 10 of the specification. Corrected "Description of Artificial Sequence" of SEQ ID NOS:57-84 may be found on pages 33, 35, 36, 37, 38, 39, and 40 of the specification. Also submitted herewith in full compliance to 37 C.F.R. §§1.821-1.825 is a disk copy of the revised Substitute Sequence Listing. The disk copy of the revised

Substitute Sequence Listing, file "20-4348.txt", is identical to the paper copy, except that it lacks formatting. Sequence identifiers for Lists 1-14 were previously added by amendment, filed May 13, 1998.

No new matter is incorporated by the revised Substitute Sequence Listing as explained above.

***Rejection under 35 U.S.C. § 112, second paragraph***

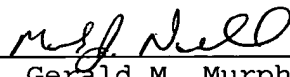
Claims 5 and 8 stand rejected under 35 U.S.C. § 112, second paragraph as being indefinite in the recitation of the phrase "deletion, replacement, modification or addition." Applicants position on this issue is presented in the response filed March 4, 1999. However, to advance prosecution of this application, Applicants have canceled claims 5 and 8, replacing them with new claims 43 and 44 as discussed with the Examiner in the telephone interview conducted June 1, 1999.

Applicants' Representative believes that the claims now pending in the application are in condition for allowance. Such favorable action on the claims is respectfully requested. If there are any minor matters precluding allowance that can be addressed by a telephone conversation, the Examiner is requested to contact Mark J. Nuell, Ph.D. at 703-205-8000 to discuss the matter.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By   
Gerald M. Murphy, Jr.  
Reg. No. 28,977

Mark J. Nuell  
Reg. No. 36,623

P.O. Box 747  
Falls Church, Virginia 22040-0747  
(703) 205-8000

GMM/DRN/LPS

Attachments: Disk Copy of revised Substitute Sequence Listing  
Paper Copy of revised Substitute Sequence Listing  
Copy of Notice to Comply